



AMENDMENTS TO THE CLAIMS

IN THE CLAIMS:

Please cancel claim 29 without prejudice to or disclaimer of the subject matter contained therein.

Please amend the claims as follows:

27. (currently amended) A method of detecting protein-protein interaction comprising,

(a) [producing] [providing] a first fusion protein and a second fusion protein, wherein:

(1) said first fusion protein comprises [comprising]

(a) a known polypeptide linked to

(b) a first green fluorescent protein (GFP) fragment, and

[(b) producing]

(2) said [a] second fusion protein [comprising]

comprises

(a) a test polypeptide linked to

(b) a second GFP fragment, and

wherein a full length GFP is dissected between the amino acid residues of a surface loop to generate said first and second GFP fragments, and wherein association of the first and second GFP

fragments results in a GFP that exhibits detectable fluorescence;

[(c) allowing the first fusion protein to associate with the second fusion protein to form a complex mediated by the non-covalent association of the known polypeptide and test polypeptide; and

(d) detecting reassembly of GFP, wherein reassembly of GFP indicates that the test polypeptide interacts with the known polypeptide]

(b) detecting fluorescence from GFP, wherein said fluorescence is indicative of said test polypeptide interacting with said known polypeptide, thereby bringing said first and second GFP fragments into proximity with one another and associating to form a GFP that exhibits detectable fluorescence, which fluorescence is different from any detectable fluorescence prior to said association.

28. (currently amended) The method of claim 27, wherein [the method further comprises obtaining] said first and second fusion proteins are encoded by nucleic acids [encoding the first and second fusion protein and cotransfecting or cotransforming the nucleic acids] which nucleic acids are cotransfected or cotransformed into a cell and expressed to obtain the first and second fusion protein.

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30. (currently amended) The method of claim 27, wherein
said full length GFP [the first GFP fragment] is dissected [from
the second GFP fragment] between amino acid residues 157 and
158.

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31. (currently amended) The method of claim 27, wherein
the first GFP fragment [peptide] is an N-terminal fragment of
GFP (NGFP) [NGFP] and the second GFP fragment [peptide] is a C-
terminal fragment of GFP (CGFP) [CGFP].

Please add the following new claim:

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32. (new) The method of claim 27, wherein said first GFP
fragment comprises the amino acid sequence of SEQ ID NO:3 and
said second GFP fragment comprises the amino acid sequence of
SEQ ID NO:5.